

Date: Fri, 22 Oct 93 19:06:53 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1257
To: Info-Hams

Info-Hams Digest Fri, 22 Oct 93 Volume 93 : Issue 1257

Today's Topics:

 FT-470 Intermod problems
 HAM-server index file
 ICOM IC-micro2ATReply-To: pcr@vnet.ibm.com (phil reed)
 ORBS\$295.2L
 ORBS\$295.MICRO.AMSAT
 ORBS\$295.OSCAR.AMSAT
 ORBS\$295.WT.AMSAT
 S-58 Element Set
 Some humor

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 22 Oct 1993 12:29:04 GMT
From: destroyer!news1.oakland.edu!vela.acs.oakland.edu!prvalko@uunet.uu.net
Subject: FT-470 Intermod problems
To: info-hams@ucsd.edu

I think Clark is correct, as usual. I owned an FT-470 for several YEARS
until I bought the FT-530 last March. I is almost unusable with
anything other than the "rubber duck" antenna. The reason the other ham
noticed that the recieve signal strength is down is... becvause it IS
down. Tat's the only way the companies reduce intermod, to de-tune the
rf deck. ^^ Ops! sould say "That".

That is what Kenwood did to my TM732. Why on earth would anyone buy an
FT-470 when for 50-60 bucks more you can get a 530???? I though the

470 was a great rig (the best HT available, and I did own a few including a w2at) except for the IMD on an external antenna. I paid \$400 for the 530 last march and it is outstanding.

wb8zjl paul *** I am not now nor will I ever be a lawyer. - Hi Clark!
;-)

Date: Fri, 22 Oct 93 12:16:38 GMT
From: math.fu-berlin.de!news.dfn.de!server2.rz.uni-leipzig.de!news.uni-jena.de!
news.tu-ilmenau.de!systemtechnik.tu-ilmenau.de!tom@uunet.uu.net
Subject: HAM-server index file
To: info-hams@ucsd.edu

what is the name of this ftp-server? was not included, but should...
tnx in advance
thomas dl5atp
--

Thomas Planke
Technical University of Ilmenau
Planke@Systemtechnik.TU-Ilmenau.DE
Phone: +49 3677/69-1465

Date: 22 Oct 93 12:32:24 GMT
From: newsgate.watson.ibm.com!hawnews.watson.ibm.com!news@uunet.uu.net
Subject: ICOM IC-micro2ATReply-To: pcr@vnet.ibm.com (phil reed)
To: info-hams@ucsd.edu

In <2a6b79INN5i9@cronkite.Central.Sun.COM> doc@webrider.central.sun.com (Steve Bunis SE Southwest Chicago) writes:

>I'm looking at the above model for a possible buy (used). I would
>be very interested in hearing feedback from anyone who has used
>it and can relate plusses/minusses to me.

>
>Thanks much,

>
>
>
>---
>--

>-- Steve Bunis, Sun Microsystems ***DoD #0795*** 93-ST1100
>-- Itasca, IL ***AMA #682049***
>-- ***HRCA #HM125617**
>-- Tech+ Callsign in FCC's hands (watching the mail daily)
>
>

I had one, which I bought before my license arrived and used for 18 months.

It's not a bad little radio. Very solidly built, easy to program. I had to send it back to have the BNC connector resoldered to the circuit board, but that's a problem that's not unique to this radio.

The major minus that I found was that the offset has to be changed manually by means of the slide switch in back. If you select a repeater that's on a different offset (-/+) than the one you were previously using, and you forget to change the switch, you will transmit on the wrong offset, then wonder what the heck was going on. (Good point: it *won't* transmit out of band.)

Only 10 memories, and no scanning features. Be careful taking the battery pack off with the power on.

Conclusion: OK radio for beginners. You might want to spend a little more money and get the Radio Shack HX-202, but the Icom u02AT is a pretty good radio.

...phil

phillip c. reed

pcr@vnet.ibm.com / KD4PWI@N4YUU.CKY.KY.USA.NA / CI\$:72754,513

* It is highly unlikely that the opinions expressed herein are those of IBM *
* or any of it's operating units. *

Date: 23 Oct 93 00:05:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$295.2L
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-295.N
2Line Orbital Elements 295.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX October 22, 1993
BID: \$ORBS-295.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1 14129U 83058B 93279.33702867 -.000000081 00000-0 10000-3 0 824
 2 14129 27.1481 2.4799 6019419 119.8710 312.5993 2.05881755 77546
 U0-11
 1 14781U 84 21 B 93290.08412027 .000000274 00000-0 50594-4 0 6035
 2 14781 97.8032 311.0490 0011570 334.0183 26.0441 14.69068128514615
 RS-10/11
 1 18129U 87 54 A 93290.06201884 .000000043 00000-0 40717-4 0 8031
 2 18129 82.9270 148.5516 0011614 346.1410 13.9473 13.72324107316561
 A0-13
 1 19216U 88 51 B 93291.97902075 -.000000112 00000-0 30938-2 0 8038
 2 19216 57.9233 288.8083 7215023 326.4503 3.7960 2.09724992 40957
 F0-20
 1 20480U 90 13 C 93286.05864589 -.000000014 00000-0 -22763-5 0 6012
 2 20480 99.0206 119.8565 0540673 179.4597 180.7200 12.83221389172438
 A0-21
 1 21087U 91 6 A 93294.05409391 .000000057 00000-0 53777-4 0 3597
 2 21087 82.9442 319.6850 0036471 32.4253 327.9130 13.74526370136734
 RS-12/13
 1 21089U 91 7 A 93292.06028196 .000000012 00000-0 61443-5 0 6043
 2 21089 82.9254 190.2557 0030765 60.2849 300.1362 13.74027733135530
 ARSENE
 1 22654U 93031 B 93291.00444059 .000000000 00000-0 99999-4 0 5282
 2 22654 001.3462 116.7185 2926141 157.0144 219.0546 01.42202871002302
 U0-14
 1 20437U 90 5 B 93294.17819869 .000000084 00000-0 40432-4 0 9041
 2 20437 98.6076 17.0234 0011031 169.3749 190.7673 14.29797986195433
 A0-16
 1 20439U 90 5 D 93291.23406536 .000000055 00000-0 29168-4 0 7049
 2 20439 98.6147 15.1060 0011212 178.7520 181.3697 14.29854858195021
 D0-17
 1 20440U 90 5 E 93294.22052761 .000000082 00000-0 39467-4 0 7043
 2 20440 98.6150 18.3069 0011374 169.2905 190.8528 14.29992505195460
 W0-18
 1 20441U 90 5 F 93293.77202168 .000000079 00000-0 38439-4 0 7056
 2 20441 98.6153 17.8815 0011930 171.0347 189.1050 14.29970770195401
 L0-19
 1 20442U 90 5 G 93291.73689884 .000000079 00000-0 38137-4 0 7049
 2 20442 98.6158 16.0691 0012313 176.5723 183.5546 14.30062069195126
 U0-22
 1 21575U 91 50 B 93292.12954494 .000000093 00000-0 38553-4 0 4049
 2 21575 98.4601 6.1819 0006983 294.2221 65.8240 14.36857525118464
 K0-23
 1 22077U 92 52 B 93292.44454846 .000000000 00000-0 99999-4 0 3016
 2 22077 66.0843 64.0300 0003238 352.2623 7.8344 12.86281279 55821
 A0-27
 1 22825U 93 61 C 93292.20664361 .000000081 00000-0 41041-4 0 2043
 2 22825 98.6801 5.1308 0008356 187.8461 172.2658 14.27584941 3297
 I0-26

1 22826U 93 61 D 93291.43407526 .000000053 00000-0 29566-4 0 2054
 2 22826 98.6791 4.3653 0008790 191.9871 168.1093 14.27686814 3191
 KO-25
 1 22830U 93 61 H 93293.18077098 .000000069 00000-0 35864-4 0 2055
 2 22830 98.5788 5.8953 0012182 157.1178 203.0570 14.28010481 3443
 NOAA-9
 1 15427U 84123 A 93290.74612187 -.000000037 00000-0 -93954-5 0 6057
 2 15427 99.0870 332.9651 0014954 179.9226 180.2097 14.13554165456087
 NOAA-10
 1 16969U 86 73 A 93290.82106501 .000000122 00000-0 60766-4 0 5047
 2 16969 98.5150 302.1917 0012934 321.7010 38.3214 14.24837161368080
 MET-2/17
 1 18820U 88 5 A 93291.53530170 .000000081 00000-0 66377-4 0 2038
 2 18820 82.5391 100.8136 0017013 135.7781 224.4741 13.84695921288912
 MET-3/2
 1 19336U 88 64 A 93291.49527421 .000000043 00000-0 99999-4 0 2030
 2 19336 82.5404 134.7206 0017389 143.8562 216.3716 13.16961690251441
 NOAA-11
 1 19531U 88 89 A 93290.89200958 .000000186 00000-0 12097-3 0 4044
 2 19531 99.1481 269.2092 0012760 92.8710 267.3840 14.12923624261009
 MET-2/18
 1 19851U 89 18 A 93291.60222170 .000000077 00000-0 63957-4 0 2041
 2 19851 82.5195 336.5279 0013850 179.8525 180.2646 13.84346937234267
 MET-3/3
 1 20305U 89 86 A 93293.86376909 .000000043 00000-0 99999-4 0 9058
 2 20305 82.5526 76.2083 0016064 158.9218 201.2569 13.16023577191637
 MET-2/19
 1 20670U 90 57 A 93291.36526602 .000000000 00000-0 -50828-5 0 7043
 2 20670 82.5469 40.5451 0017260 103.8993 256.4088 13.84178196167161
 FY-1/2
 1 20788U 90 81 A 93294.21136422 .000000354 00000-0 25783-3 0 8091
 2 20788 98.8528 316.8038 0014727 321.8497 38.1620 14.01313955160235
 MET-2/20
 1 20826U 90 86 A 93292.63746333 .000000072 00000-0 59555-4 0 7047
 2 20826 82.5268 337.3746 0013989 7.5076 352.6291 13.83561622154497
 MET-3/4
 1 21232U 91 30 A 93292.47380663 .000000043 00000-0 99999-4 0 6055
 2 21232 82.5446 339.7727 0014438 70.5573 289.7107 13.16457107119680
 NOAA-12
 1 21263U 91 32 A 93290.85535603 .00002015 00000-0 92270-3 0 8098
 2 21263 98.6440 318.6746 0012273 215.7022 144.3325 14.22324821126073
 MET-3/5
 1 21655U 91 56 A 93291.44033584 .000000044 00000-0 99999-4 0 6045
 2 21655 82.5517 287.4690 0014163 81.8750 278.3976 13.16824002104643
 MET-2/21
 1 22782U 93 55 A 93289.84654493 .000000030 00000-0 21875-4 0 2035
 2 22782 82.5486 39.2666 0022321 183.8424 176.2567 13.82986914 6458
 MIR

1 16609U 86 17 A 93291.95673353 .00008910 00000-0 12144-3 0 5202
 2 16609 51.6178 317.6411 0006306 324.5715 35.4861 15.58350429438427
 HUBBLE
 1 20580U 90 37 B 93293.91470128 .00000889 00000-0 76642-4 0 3529
 2 20580 28.4715 333.8899 0004289 286.5831 73.4285 14.92878594190313
 GRO
 1 21225U 91027B 93294.72918048 .00016652 00000-0 18166-3 0 2108
 2 21225 28.4594 93.6599 0078136 141.7475 179.0070 15.57803766 20061
 UARS
 1 21701U 91 63 B 93292.47565775 .00002831 00000-0 26959-3 0 4017
 2 21701 56.9850 43.4931 0005228 80.2682 279.7906 14.96252611114893
 POSAT
 1 22829U 93 61 G 93289.11726978 .00000072 00000-0 37231-4 0 2042
 2 22829 98.6763 2.0610 0010043 184.4594 175.6498 14.27975951 2862
 /EX

 Date: 22 Oct 93 23:57:00 GMT
 From: news-mail-gateway@ucsd.edu
 Subject: ORBS\$295.MICRO.AMSAT
 To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-295.D
 Orbital Elements 295.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
 FROM WA5QGD FORT WORTH, TX October 22, 1993
 BID: \$ORBS-295.D
 TO ALL RADIO AMATEURS BT

Satellite: UO-14
 Catalog number: 20437
 Epoch time: 93294.17819869
 Element set: 904
 Inclination: 98.6076 deg
 RA of node: 17.0234 deg
 Eccentricity: 0.0011031
 Arg of perigee: 169.3749 deg
 Mean anomaly: 190.7673 deg
 Mean motion: 14.29797986 rev/day
 Decay rate: 8.4e-07 rev/day^2
 Epoch rev: 19543
 Checksum: 348

Satellite: A0-16
 Catalog number: 20439
 Epoch time: 93291.23406536

Element set: 704
Inclination: 98.6147 deg
RA of node: 15.1060 deg
Eccentricity: 0.0011212
Arg of perigee: 178.7520 deg
Mean anomaly: 181.3697 deg
Mean motion: 14.29854858 rev/day
Decay rate: 5.5e-07 rev/day^2
Epoch rev: 19502
Checksum: 301

Satellite: D0-17

Catalog number: 20440
Epoch time: 93294.22052761
Element set: 704
Inclination: 98.6150 deg
RA of node: 18.3069 deg
Eccentricity: 0.0011374
Arg of perigee: 169.2905 deg
Mean anomaly: 190.8528 deg
Mean motion: 14.29992505 rev/day
Decay rate: 8.2e-07 rev/day^2
Epoch rev: 19546
Checksum: 310

Satellite: W0-18

Catalog number: 20441
Epoch time: 93293.77202168
Element set: 705
Inclination: 98.6153 deg
RA of node: 17.8815 deg
Eccentricity: 0.0011930
Arg of perigee: 171.0347 deg
Mean anomaly: 189.1050 deg
Mean motion: 14.29970770 rev/day
Decay rate: 7.9e-07 rev/day^2
Epoch rev: 19540
Checksum: 306

Satellite: L0-19

Catalog number: 20442
Epoch time: 93291.73689884
Element set: 704
Inclination: 98.6158 deg
RA of node: 16.0691 deg
Eccentricity: 0.0012313
Arg of perigee: 176.5723 deg
Mean anomaly: 183.5546 deg

Mean motion: 14.30062069 rev/day
Decay rate: 7.9e-07 rev/day^2
Epoch rev: 19512
Checksum: 319

Satellite: UO-22

Catalog number: 21575
Epoch time: 93292.12954494
Element set: 404
Inclination: 98.4601 deg
RA of node: 6.1819 deg
Eccentricity: 0.0006983
Arg of perigee: 294.2221 deg
Mean anomaly: 65.8240 deg
Mean motion: 14.36857525 rev/day
Decay rate: 9.3e-07 rev/day^2
Epoch rev: 11846
Checksum: 310

Satellite: KO-23

Catalog number: 22077
Epoch time: 93292.44454846
Element set: 301
Inclination: 66.0843 deg
RA of node: 64.0300 deg
Eccentricity: 0.0003238
Arg of perigee: 352.2623 deg
Mean anomaly: 7.8344 deg
Mean motion: 12.86281279 rev/day
Decay rate: .00000000 rev/day^2
Epoch rev: 5582
Checksum: 265

Satellite: AO-27

Catalog number: 22825
Epoch time: 93292.20664361
Element set: 204
Inclination: 98.6801 deg
RA of node: 5.1308 deg
Eccentricity: 0.0008356
Arg of perigee: 187.8461 deg
Mean anomaly: 172.2658 deg
Mean motion: 14.27584941 rev/day
Decay rate: 8.1e-07 rev/day^2
Epoch rev: 329
Checksum: 303

Satellite: IO-26

Catalog number: 22826
Epoch time: 93291.43407526
Element set: 205
Inclination: 98.6791 deg
RA of node: 4.3653 deg
Eccentricity: 0.0008790
Arg of perigee: 191.9871 deg
Mean anomaly: 168.1093 deg
Mean motion: 14.27686814 rev/day
Decay rate: 5.3e-07 rev/day^2
Epoch rev: 319
Checksum: 318

Satellite: K0-25
Catalog number: 22830
Epoch time: 93293.18077098
Element set: 205
Inclination: 98.5788 deg
RA of node: 5.8953 deg
Eccentricity: 0.0012182
Arg of perigee: 157.1178 deg
Mean anomaly: 203.0570 deg
Mean motion: 14.28010481 rev/day
Decay rate: 6.9e-07 rev/day^2
Epoch rev: 344
Checksum: 297

/EX

Date: 22 Oct 93 23:40:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$295.OSCAR.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-295.0
Orbital Elements 295.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH, TX October 22, 1993
BID: \$ORBS-295.0
TO ALL RADIO AMATEURS BT

Satellite: A0-10
Catalog number: 14129
Epoch time: 93279.33702867
Element set: 82

Inclination: 27.1481 deg
RA of node: 2.4799 deg
Eccentricity: 0.6019419
Arg of perigee: 119.8710 deg
Mean anomaly: 312.5993 deg
Mean motion: 2.05881755 rev/day
Decay rate: $-8.1e-07$ rev/day²
Epoch rev: 7754
Checksum: 322

Satellite: UO-11

Catalog number: 14781
Epoch time: 93290.08412027
Element set: 603
Inclination: 97.8032 deg
RA of node: 311.0490 deg
Eccentricity: 0.0011570
Arg of perigee: 334.0183 deg
Mean anomaly: 26.0441 deg
Mean motion: 14.69068128 rev/day
Decay rate: $2.74e-06$ rev/day²
Epoch rev: 51461
Checksum: 264

Satellite: RS-10/11

Catalog number: 18129
Epoch time: 93290.06201884
Element set: 803
Inclination: 82.9270 deg
RA of node: 148.5516 deg
Eccentricity: 0.0011614
Arg of perigee: 346.1410 deg
Mean anomaly: 13.9473 deg
Mean motion: 13.72324107 rev/day
Decay rate: $4.3e-07$ rev/day²
Epoch rev: 31656
Checksum: 273

Satellite: A0-13

Catalog number: 19216
Epoch time: 93291.97902075
Element set: 803
Inclination: 57.9233 deg
RA of node: 288.8083 deg
Eccentricity: 0.7215023
Arg of perigee: 326.4503 deg
Mean anomaly: 3.7960 deg
Mean motion: 2.09724992 rev/day

Decay rate: -1.12e-06 rev/day²
Epoch rev: 4095
Checksum: 308

Satellite: F0-20

Catalog number: 20480
Epoch time: 93286.05864589
Element set: 601
Inclination: 99.0206 deg
RA of node: 119.8565 deg
Eccentricity: 0.0540673
Arg of perigee: 179.4597 deg
Mean anomaly: 180.7200 deg
Mean motion: 12.83221389 rev/day
Decay rate: -1.4e-07 rev/day²
Epoch rev: 17243
Checksum: 315

Satellite: A0-21

Catalog number: 21087
Epoch time: 93294.05409391
Element set: 359
Inclination: 82.9442 deg
RA of node: 319.6850 deg
Eccentricity: 0.0036471
Arg of perigee: 32.4253 deg
Mean anomaly: 327.9130 deg
Mean motion: 13.74526370 rev/day
Decay rate: 5.7e-07 rev/day²
Epoch rev: 13673
Checksum: 303

Satellite: RS-12/13

Catalog number: 21089
Epoch time: 93292.06028196
Element set: 604
Inclination: 82.9254 deg
RA of node: 190.2557 deg
Eccentricity: 0.0030765
Arg of perigee: 60.2849 deg
Mean anomaly: 300.1362 deg
Mean motion: 13.74027733 rev/day
Decay rate: 1.2e-07 rev/day²
Epoch rev: 13553
Checksum: 286

Satellite: ARSENE

Catalog number: 22654

Epoch time: 93291.00444059
Element set: 528
Inclination: 001.3462 deg
RA of node: 116.7185 deg
Eccentricity: 0.2926141
Arg of perigee: 157.0144 deg
Mean anomaly: 219.0546 deg
Mean motion: 01.42202871 rev/day
Decay rate: .00000000 rev/day^2
Epoch rev: 00230
Checksum: 237

/EX

Date: 23 Oct 93 00:00:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$295.WT.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-295.W
Orbital Elements 295.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH,TX October 22, 1993
BID: \$ORBS-295.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 93290.74612187
Element set: 605
Inclination: 99.0870 deg
RA of node: 332.9651 deg
Eccentricity: 0.0014954
Arg of perigee: 179.9226 deg
Mean anomaly: 180.2097 deg
Mean motion: 14.13554165 rev/day
Decay rate: -3.7e-07 rev/day^2
Epoch rev: 45608
Checksum: 326

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 93290.82106501
Element set: 504
Inclination: 98.5150 deg

RA of node: 302.1917 deg
Eccentricity: 0.0012934
Arg of perigee: 321.7010 deg
Mean anomaly: 38.3214 deg
Mean motion: 14.24837161 rev/day
Decay rate: 1.22e-06 rev/day^2
Epoch rev: 36808
Checksum: 269

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 93291.53530170
Element set: 203
Inclination: 82.5391 deg
RA of node: 100.8136 deg
Eccentricity: 0.0017013
Arg of perigee: 135.7781 deg
Mean anomaly: 224.4741 deg
Mean motion: 13.84695921 rev/day
Decay rate: 8.1e-07 rev/day^2
Epoch rev: 28891
Checksum: 293

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 93291.49527421
Element set: 203
Inclination: 82.5404 deg
RA of node: 134.7206 deg
Eccentricity: 0.0017389
Arg of perigee: 143.8562 deg
Mean anomaly: 216.3716 deg
Mean motion: 13.16961690 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 25144
Checksum: 295

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 93290.89200958
Element set: 404
Inclination: 99.1481 deg
RA of node: 269.2092 deg
Eccentricity: 0.0012760
Arg of perigee: 92.8710 deg
Mean anomaly: 267.3840 deg
Mean motion: 14.12923624 rev/day
Decay rate: 1.86e-06 rev/day^2

Epoch rev: 26100
Checksum: 296

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 93291.60222170
Element set: 204
Inclination: 82.5195 deg
RA of node: 336.5279 deg
Eccentricity: 0.0013850
Arg of perigee: 179.8525 deg
Mean anomaly: 180.2646 deg
Mean motion: 13.84346937 rev/day
Decay rate: $7.7e-07$ rev/day²
Epoch rev: 23426
Checksum: 321

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 93293.86376909
Element set: 905
Inclination: 82.5526 deg
RA of node: 76.2083 deg
Eccentricity: 0.0016064
Arg of perigee: 158.9218 deg
Mean anomaly: 201.2569 deg
Mean motion: 13.16023577 rev/day
Decay rate: $4.3e-07$ rev/day²
Epoch rev: 19163
Checksum: 307

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 93291.36526602
Element set: 704
Inclination: 82.5469 deg
RA of node: 40.5451 deg
Eccentricity: 0.0017260
Arg of perigee: 103.8993 deg
Mean anomaly: 256.4088 deg
Mean motion: 13.84178196 rev/day
Decay rate: $.00000000$ rev/day²
Epoch rev: 16716
Checksum: 299

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 93294.21136422

Element set: 809
Inclination: 98.8528 deg
RA of node: 316.8038 deg
Eccentricity: 0.0014727
Arg of perigee: 321.8497 deg
Mean anomaly: 38.1620 deg
Mean motion: 14.01313955 rev/day
Decay rate: 3.54e-06 rev/day^2
Epoch rev: 16023
Checksum: 303

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 93292.63746333
Element set: 704
Inclination: 82.5268 deg
RA of node: 337.3746 deg
Eccentricity: 0.0013989
Arg of perigee: 7.5076 deg
Mean anomaly: 352.6291 deg
Mean motion: 13.83561622 rev/day
Decay rate: 7.2e-07 rev/day^2
Epoch rev: 15449
Checksum: 320

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 93292.47380663
Element set: 605
Inclination: 82.5446 deg
RA of node: 339.7727 deg
Eccentricity: 0.0014438
Arg of perigee: 70.5573 deg
Mean anomaly: 289.7107 deg
Mean motion: 13.16457107 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 11968
Checksum: 316

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 93290.85535603
Element set: 809
Inclination: 98.6440 deg
RA of node: 318.6746 deg
Eccentricity: 0.0012273
Arg of perigee: 215.7022 deg
Mean anomaly: 144.3325 deg

Mean motion: 14.22324821 rev/day
Decay rate: 2.015e-05 rev/day^2
Epoch rev: 12607
Checksum: 276

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 93291.44033584
Element set: 604
Inclination: 82.5517 deg
RA of node: 287.4690 deg
Eccentricity: 0.0014163
Arg of perigee: 81.8750 deg
Mean anomaly: 278.3976 deg
Mean motion: 13.16824002 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 10464
Checksum: 303

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 93289.84654493
Element set: 203
Inclination: 82.5486 deg
RA of node: 39.2666 deg
Eccentricity: 0.0022321
Arg of perigee: 183.8424 deg
Mean anomaly: 176.2567 deg
Mean motion: 13.82986914 rev/day
Decay rate: 3.0e-07 rev/day^2
Epoch rev: 645
Checksum: 324

/EX

Date: 23 Oct 93 00:08:48 GMT
From: news-mail-gateway@ucsd.edu
Subject: S-58 Element Set
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-58.012
STS-58 Element Set for 10/22/93

Gill Carman, WA5NOM reports that element set JSC-010 is still within one second of the current orbiter state vector. Therefore no new SAREX element set will be released today. Element set JSC-010 is provided below for

those who do not have it. A new element set will be released tomorrow evening (EDT) following the scheduled Shuttle orbit burn.

STS-58

```
1 22869U 93 65 A 93294.86836529 .00191327 00000-0 25999-3 0 108
2 22869 39.0211 107.4394 0004523 319.1598 40.8836 15.96428488 535
```

Satellite: STS-58

Catalog number: 22869

Epoch time: 93294.86836529 = (21 OCT 93 20:50:26.76 UTC)

Element set: 010

Inclination: 39.0211 deg

RA of node: 107.4394 deg

Space Shuttle Flight STS-58

Eccentricity: .0004523

Keplerian Element set JSC-010

Arg of perigee: 319.1598 deg

from NASA flight Day 4 vector

Mean anomaly: 40.8836 deg

Mean motion: 15.96428488 rev/day

G. L. Carman

Decay rate: 1.91327e-03 rev/day~2

NASA Johnson Space Center

Epoch rev: 53

Checksum: 331

Submitted by Frank H. Bauer, KA3HDO, for the SAREX Working Group

/EX

Date: Fri, 22 Oct 1993 08:06:06 GMT

From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa

Subject: Some humor

To: info-hams@ucsd.edu

I found this in the info-server available from the ARRL (what a gold mine of information that contains - Thanks ARRL!)

Jeff NH6IL

N O T I C E

TO ALL VISITORS

WHAT YOU ARE ABOUT TO WITNESS IS AN AMATEUR RADIO STATION
LICENSED AS _____ BY THE FEDERAL COMMUNICATIONS
COMMISSION IN WASHINGTON, DC. BEFORE YOU ASK THE QUESTIONS, HERE ARE
THE ANSWERS:

1) The total cost of this equipment cannot be discussed here as
it creates marital conflicts.

2) No, we cannot send a message to your brother in Hong Kong. We suggest you call Western Union.

3) This is strictly a hobby; we do not have the facilities or the time to fool around with TV sets, radios or hi-fi. We suggest that you see a serviceman.

4) Yes, the antenna in the backyard is essential to the operation of the equipment.

5) The farthest station we have contacted has been in the Ubangiland.

6) The cards on the wall are called QSL cards. They are confirmation of contacts made with other stations.

7) It is technically impossible for this station's equipment to interfere with television reception, telephones or stereo systems. Any interference problems of that nature are caused by design flaws in the home-entertainment devices themselves.

8) An Amateur Radio station may only be operated by a highly qualified, technically skilled electronics expert. It takes dedication, training and intelligence to reach the level of competence that justifies one to be license by the United States Federal Government. Therefore, it is not considered inappropriate to show proper awe, respect and general obsequiousness when I discuss my hobby or operate the controls.

FURTHERMORE...

IF YOU ARE GRANTED THE EXTREME HONOR OF BEING INVITED TO SPEAK INTO THE MICROPHONE, PLEASE OBSERVE THE FOLLOWING RULES:

- 1) Speak in a low and soothing tone.
- 2) Do not disagree with me in any manner.
- 3) Say no bad words and tell no off-color jokes.
- 4) It is customary for guests to make complimentary remarks about this station and its licensed operator when talking to other hams on the air.

DO NOT TOUCH ANYTHING, TURN ANY KNOBS, SIT ON EQUIPMENT, ETC. I HAVE LOST SEVERAL VISITORS BY ELECTROCUTION IN THE PAST FEW WEEKS.

Thank you for your cooperation

End of Info-Hams Digest V93 #1257
